



Bugs: dmextract

A list of bugs fixed in CIAO 3.4 is included at the end of this document.

Bugs

1. *dmextract* does not ignore pixels in an image with a value equal to the **BLANK** keyword.
2. A parse error occurs when combining the grid syntax with use of the **bkg** parameter (01 Dec 2006)

For example:

```
unix% dmextract \
  infile="acis_evts.fits[pos=circle(25920,25920,300)][bin time=grid(src_bin100.lc[cols ti
  outfile=lightcurve.fits opt=ltc1 \
  bkg="acis_evts.fits[pos=circle(21184,30496,1200)]"
# dmextract (CIAO 3.4): dsDMEXTRACTREGPARSEERR -- ERROR: Failed to parse the supplied regions
# dmextract (CIAO 3.4): dsDMEXTRACTPROFILEERR -- ERROR: Failed to process some files.
```

Even though the `grid` syntax is used in the input file filter, it is the parsing of the background file definition that causes a failure. Leave the `bkg` parameter blank and the command runs correctly.

Bugs fixed in CIAO 3.4

The following is a list of bugs that were fixed in the CIAO 3.4 software release.

1. When creating a radial profile, *dmextract* includes a **COUNT_RATE_ERR** column in the output which is full of zeroes.
2. Incorrect background exposure time with "`opt=ltc1`" (16 Aug 2006)

When *dmextract* is run with "`opt=ltc1`", the background exposure time in each bin is calculated incorrectly. The total **LIVETIME** is reported in the **BG_EXPOSURE** column. Since the **BG_EXPOSURE** is incorrect so is the **BG_RATE**, **NET_COUNTS**, **NET_ERR**, and the **ERR_RATE**. If a background exposure file (e.g. a DTF file) is supplied, it is also not applied.

3. Combining a weight with the grid syntax does not work correctly in *dmextract*

This is NOT fixed for the "bkg" parameter yet.

For example:

```
unix% dmextract \
  "acis_evts.fits[bin time=grid(acis_lc3.fits[cols time_min,time_max]);energy]" \
  lcurve.fits op=ltc1
```

The "`;energy`" combined with the "`grid()`" is not parsed properly; "`grid()`" by itself works fine.

Bugs: dmextract – CIAO 3.4

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URL:
<http://cxc.harvard.edu/ciao3.4/bugs/dmextract.html>
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